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### (54) POLYMERIZATION OF ETHYLENE

#### (57)Abstract:

PURPOSE: To obtain a (co)polymer of a low melt flow index, by (co)polymerizing ethylene at a high temperature in the presence of a Ziegler catalyst of a specified composition.

CONSTITUTION: A catalyst is prepared by combining (A) a solid catalyst component containing at least titanium, magnesium, and chlorine, obtained by, for example, a method comprising mixing and grinding magnesium chloride, titanium trichloride, and an electron donor, with (B) an organoaluminum compound (e.g., diethylaluminum monochloride) and (C) a silicon compound having a Si-OR bond or a Si-OCOR bond (wherein R is a 1W10 C hydrocarbon), e.g., tetraethoxysilane. The purpose (co)polymer is obtained by polymerizing ethylene or copolymerizing ethylene with an  $\alpha$ -olefin (e.g., propylene) at a polymerization temperature of 180°C or higher in the presence of the above produced catalyst.

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